

and water.

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The method according to Claim 33, wherein the therapeutic effect is selected from the group consisting of increasing blood flow to the wound, mechanically cleansing the wound, stimulating cell growth, providing at least one medicament to the wound, and penetrating at least one medicament through the surface of the wound.

### REMARKS

By the present Preliminary Amendment, the specification has been amended to correct grammatical mistakes and to include subject matter supported by original Claims 12-17, Claims 1-<sup>25</sup>~~17~~ have been canceled, and Claims <sup>26-45</sup>~~18-37~~ have been added in an effort to better define the Applicant's invention and not for patentability purposes.

Favorable consideration of the application is respectfully requested.

If the Examiner should have any questions concerning this communication or feels that an interview would be helpful, the Examiner is requested to call the Applicant's undersigned attorney at (631) 501-5700.

Respectfully submitted,



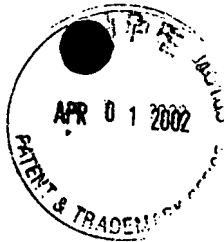
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PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANT(S): Eilaz Babaev

GROUP ART UNIT: 3764

SERIAL NO.: 09/669,312

FILED: September 25, 2000

EXAMINER: Not Yet Assigned

Atty. Docket No. 1177-11

FOR: **ULTRASONIC METHOD AND DEVICE FOR WOUND TREATMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

**MARKED-UP VERSIONS OF THE AMENDMENTS**

Sir:

Marked-up versions of the amendments in accordance with 37 C.F.R. § 1.121 are provided below:

**Marked-Up Versions of the Replacement Paragraphs for the Specification:**

Marked-Up Version of the First Replacement Paragraph:

The method of the invention comprises producing a directed spray of liquid particles produced by contact of the liquid with a free end surface of an ultrasonic transducer. The ultrasonic waves cause the spray to project outwardly from the distal end surface of the ultrasonic transducer, and the particle spray is directed onto the wound. The particles of the

**CERTIFICATION UNDER 37 C.F.R. § 1.8(a)**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postpaid in an envelope, addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Dated: 3/21/02

George Likourezos

(Signature of person mailing paper)

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spray provide a medium for propagation of the ultrasonic waves emanating from the distal end surface. According to the method of the present invention directed particle spray created by low frequency ultrasound waves onto a wound, delivers drug, kills bacteria on that wound, increases blood flow, and removes dirt and other contaminants from that surface (mechanical cleansing).

Marked-Up Version of the Second Replacement Paragraph:

One of the major advantages of the invention is the uniformity of the spray particles generated. Because liquid is sprayed from a solid radiation surface, there is substantial uniformity of particle size, about 90% or greater, preferably from about 90 to 96%. It is provided that the distal radiation surface is driven with constant frequency to create the spray. It is also provided that the frequency can be modulated during treatment and that the distal radiation surface is driven with a sinusoidal, rectangular, trapezoidal or triangular wave form.

Marked-Up Version of the Third Replacement Paragraph:

The spray produced according to the invention is directed to the object, surface, or tissue to be sprayed for the time and frequency required to accomplish a particular purpose or treatment. It is believed that a minimum length of spray of at least one second will be required; however, the length or duration of the spray could be from about one second to as much as a minute or more, even 30 minutes. Numerous factors or circumstances, such as, for example, the area to be sprayed (e.g., the size of a wound), the volume rate of spray produced, the concentration of active ingredient, etc., will impact upon the duration and/or frequency of the spraying. Spraying could be required from one or [ore] more times daily to as little as two or

three times a week or month.

If the Examiner should have any questions concerning this communication or feels that an interview would be helpful, the Examiner is requested to call the Applicant's undersigned attorney at (631) 501-5700.

Respectfully submitted,



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